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(21)Application number : **04-098277**(71)Applicant : **ELF ATOCHEM SA**(22)Date of filing : **17.04.1992**(72)Inventor : **BERTHE BERNARD**

(30)PriorityPriority number : **91 9104736** Priority date : **17.04.1991** Priority country : **FR****(54) METHOD FOR SEPARATING HYDROGEN FLUORIDE FROM ITS MIXTURE WITH 1,1,1-TRIFLUORO-2-CHLOROETHANE****(57)Abstract:**

PURPOSE: To provide the method for separating hydrogen fluoride(HF) from its mixture with 1,1,1-trifluoro-2-chloroethane (F133a).

CONSTITUTION: A mixture of HF and F133a is subjected to a phase separation at $\leq 0^{\circ}\text{C}$ to obtain an organic under phase poor in HF and an upper layer rich in HF, the latter is directly recycled into a fluorination reactor or subjected to distillation, HF-F133a co-distillate mixture is distilled out from the head and returned to the phase separator and practically pure HF is recovered at the bottom. The under phase is distilled, HF-F133a co-distillate is distilled out from the head and returned to the phase separator and F133a is recovered at the bottom.

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